

SYSTEM, METHOD AND COMPUTER PRODUCT FOR PERFORMING AUTOMATED PREDICTIVE RELIABILITY

Abstract of Disclosure

System, method and computer product for performing automated predictive reliability. A data acquisition component acquires service data for a complex system from a data repository. A statistical analysis component generates a statistical model for the service data. A simulation component predicts the reliability of the complex system according to the statistical model. An alert generation component generates alerts when predicted failures determined by the simulation component exceed predetermined alert criteria. A report generation component generates a summary of the analysis performed in the data acquisition, statistical analysis and alert generation components.

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Variable	Mean	Standard deviation	Minimum	Maximum
Age	34.5	10.5	20	65
Gender	0.5	0.5	0	1
Marital status	0.5	0.5	0	1
Education	12.5	1.5	10	16
Income	1.5	0.5	1	2
Health status	0.5	0.5	0	1
Smoking status	0.5	0.5	0	1
Alcohol consumption	0.5	0.5	0	1
Exercise frequency	0.5	0.5	0	1
Stress level	0.5	0.5	0	1
Sleep quality	0.5	0.5	0	1
Work satisfaction	0.5	0.5	0	1
Life satisfaction	0.5	0.5	0	1
Overall health	0.5	0.5	0	1
Physical health	0.5	0.5	0	1
Mental health	0.5	0.5	0	1
Social health	0.5	0.5	0	1
Emotional health	0.5	0.5	0	1
Behavioral health	0.5	0.5	0	1
Environmental health	0.5	0.5	0	1
Occupational health	0.5	0.5	0	1
Financial health	0.5	0.5	0	1
Family health	0.5	0.5	0	1
Community health	0.5	0.5	0	1
National health	0.5	0.5	0	1
Global health	0.5	0.5	0	1
World health	0.5	0.5	0	1
Universal health	0.5	0.5	0	1
Human health	0.5	0.5	0	1
Planetary health	0.5	0.5	0	1
Ecological health	0.5	0.5	0	1
Environmental health	0.5	0.5	0	1
Climate health	0.5	0.5	0	1
Weather health	0.5	0.5	0	1
Seasonal health	0.5	0.5	0	1
Annual health	0.5	0.5	0	1
Decadal health	0.5	0.5	0	1
Centennial health	0.5	0.5	0	1
Millennial health	0.5	0.5	0	1
Biological health	0.5	0.5	0	1
Chemical health	0.5	0.5	0	1
Physical health	0.5	0.5	0	1
Mental health	0.5	0.5	0	1
Social health	0.5	0.5	0	1
Emotional health	0.5	0.5	0	1
Behavioral health	0.5	0.5	0	1
Environmental health	0.5	0.5	0	1
Climate health	0.5	0.5	0	1
Weather health	0.5	0.5	0	1
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